



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: TAY 611-8C BYPASS RATIO: 3.2
 UNIQUE ID NUMBER: 6RR042 PRESSURE RATIO (π_{00}): 15.8
 COMBUSTOR: Transply IIJ
 ENGINE TYPE: MTF RATED THRUST (F_{00}) (kN): 61.6

REGULATORY DATA **** DATA SUPERSEDED **** SEE FOLLOWING UID FOR REVISED DATA: **11RR048**

| CHARACTERISTIC VALUE: | HC | CO | NO _x | SMOKE NUMBER |
|--|------|-------|-----------------|--------------|
| D _p /F ₀₀ (g/kN) or SN | 4.6 | 101.6 | 48.2 | 5.1 |
| AS % OF ORIGINAL LIMIT | 23.2 | 86.1 | 67.4 | 18.7 |
| AS % OF CAEP/2 LIMIT (NO _x) | | | 84.3 | |
| AS % OF CAEP/4 LIMIT (NO _x) | | | 96.6 | |
| AS % OF CAEP/6 LIMIT (NO _x) | | | 102.7 | |
| AS % OF CAEP/8 LIMIT (NO _x) | | | 118.3 | |

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES
 x DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 - OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

| MODE | POWER SETTING (%F ₀₀) | TIME (minutes) | FUEL FLOW (kg/s) | EMISSIONS INDICES (g/kg) | | | SMOKE NUMBER |
|--|-----------------------------------|----------------|------------------|--------------------------|-------------|-----------------|--------------|
| | | | | HC | CO | NO _x | |
| TAKE-OFF | 100 | 0.7 | 0.741 | 0.02 | 1.12 | 18.42 | 3.9 |
| CLIMB OUT | 85 | 2.2 | 0.612 | 0.00 | 1.27 | 15.01 | 2.2 |
| APPROACH | 30 | 4.0 | 0.241 | 0.00 | 4.99 | 5.60 | 0.2 |
| IDLE | 7 | 26.0 | 0.105 | 1.11 | 28.55 | 2.76 | 0.1 |
| LTO TOTAL FUEL (kg) or EMISSIONS (g) | | | 334 | 182 | 5103 | 2562 | - |
| NUMBER OF ENGINES | | | | 1 | 1 | 1 | 1 |
| NUMBER OF TESTS | | | | 3 | 3 | 3 | 3 |
| AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX) | | | | 3.0 | 82.8 | 41.6 | 3.9 |
| SIGMA (D _p /F ₀₀ in g/kN, or SN) | | | | 0.0 | 0.0 | 0.0 | 0.0 |
| RANGE (D _p /F ₀₀ in g/kN, or SN) | | | | 2.56-3.37 | 78.58-86.04 | 40.99-41.92 | 3.53-4.35 |

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

| | |
|----------------------|-------------|
| BAROMETER (kPa) | 99.9-100 |
| TEMPERATURE (K) | 281.4-282.7 |
| ABS HUMIDITY (kg/kg) | 0.00475 |

FUEL

| | |
|----------|------|
| SPEC | |
| H/C | 1.99 |
| AROM (%) | 17.5 |

MANUFACTURER: Rolls-Royce plc
 TEST ORGANIZATION: Rolls-Royce
 TEST LOCATION: Dahlewitz
 TEST DATES: 21/01/2002-22/01/2002

REMARKS

1. Certification report E-TR164/02
2. New airspray fuel injector

Compliance with Fuel Venting requirements: - ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)